

MSI-9020 CellScale™ RF CellModem

Specifications

Enclosure:

NEMA Type 4, IP65 milled anodized aluminum with O-ring gaskets
NEMA Type 6, IP67 with optional long range antenna

Weight:

3.5 lb (1.6 kg)

Annunciators:

3 LED status lamps for Power, Data TX/RX and Configuration

Power Input:

9-30 VDC (Internal 85-265 VAC, 47-440 Hz power supply optional)

Operating Temperature:

-4°F to 158°F (-20°C to 70°C)

Radio Link:

FHSS at 2.4 GHz (up to 64 network selections)

Radio Link Effective Range:

Typically 500 ft (150 m) indoor, 1000 ft (300 m) outdoor with standard antennas.
(See optional antennas for longer range)

Standard Antenna:

1/2 wave 2dBi, articulated

RFI/EMI Shielding:

Exceeds NIST HB44 and CE Standards

Data I/O:

1 Comm Port with two connector interfaces for RS-232 and RS-422

Warranty:

One-year limited

Approvals:

NTEP CC 05-077



Standard Features

- Modem only component; provides serial interface with computers, printers and scoreboards to a CellScale network
- 2.4 GHz spread spectrum frequency hopping
- Power cable, 13 ft (4 m) for 9-30 VDC input
- One communication port; RS-232 or RS-422, 13 ft (4 m) interface cable
- NEMA Type 4, IP65 enclosure (NEMA Type 6, IP67 with long range antenna)

Approvals



Part Number/Price

Part #	MSI Part #	Description	Est. Weight	Price
138477	502536-0001	MSI-9020 RF CellModem, DC power	7 lb (3.5 kg)	\$2,310.00
138478		MSI-9020 RF CellModem, AC/DC power		Consult

Options/Accessories

Part #	MSI Part #	Description	Est. Weight	Price
Consult	Consult	Internal 85-265 VAC, 47-440 Hz power supply	-	\$305.00
143466	12147	Long range antenna, 300 m-500 m omni-directional with 9 dBi gain, includes 10 ft/3 m coaxial cable	1 lb (0.45 kg)	\$425.00
Consult	Consult	9 dBi or 14 dBi gain corner reflector antenna	1 lb (0.45 kg)	Consult
Consult	Consult	5 dBi gain vehicle/cab mount whip antenna, includes 17 ft/5.2 m coaxial cable	1 lb (0.45 kg)	Consult
137567	502046-0001	Non-terminated serial cable for communication port connection, 13 ft/4 m longer lengths available by special order	1 lb (0.45 kg)	\$105.00
Consult	Consult	CellScale Virtual Monitor (CVM) application software (enables PC to emulate scale indicator)	Consult	Consult

Shackle Dimensions

Part Number/Price

Part #	MSI Part #	W.I.L. Tons	Size	A	B	C	D	E	F	H	L	N	P	Weight	Price
151357	10541	3 1/4	0.63	1.06	.75	2.38	0.63	1.69	1.56	4.22	2.94	0.69	N/A	1.58	Consult
151355	10538	6 1/2	0.88	1.44	1.00	3.31	0.88	2.28	2.13	5.75	4.03	0.97	5.00	3.95	Consult
141992	10539	17	1.50	2.38	1.63	5.75	1.50	3.88	3.63	9.88	6.88	1.62	8.25	19.50	Consult
151356	10540	25	1.75	2.88	2.00	7.00	1.75	5.00	4.32	11.88	8.50	2.12	9.59	31.30	Consult
146334	23650-0030	30	1.50	2.38	1.63	5.75	1.50	3.88	3.63	9.88	6.88	1.62	8.25	20.80	Consult
146335	23650-0040	40	1.75	2.88	2.00	7.00	1.75	5.00	4.32	11.88	8.50	2.12	9.59	33.91	Consult
146336	23650-0050	55	2.00	3.25	2.25	7.75	2.00	5.75	5.00	13.38	9.75	2.00	11.00	51.75	Consult
151359	N/A	85	2.5	4.12	2.75	10.50	2.72	7.25	5.69	17.84	12.87	3.12	13.58	96.00	Consult
151360	23650-0110	120	3.00	5.00	3.25	13.00	3.00	7.88	6.50	21.50	14.50	3.63	16.50	178.00	Consult
83455	N/A	120	3	5.00	3.25	13.00	3.11	7.88	6.50	21.50	14.36	3.63	15.13	178.00	Consult
151361	23650-0175	175	4.00	5.50	4.25	14.50	4.00	10.00	9.00	25.69	18.38	4.56	19.75	338.00	Consult
151358		250	4	8.50	5.00	20.00	4.50	13.00	12.00	35.00	24.50	6.50	22.68	600.00	Consult
Oversized Shackles															
148497	501386-0100	40	1.75	2.88	2.00	10.00	2.25	6.00	4.32	15.35	10.50	2.25	9.00	45.00	Consult
148393	501082-0100	40	2.25	2.88	2.00	12.50	2.25	8.00	4.32	17.85	12.50	2.25	10.00	90.00	Consult
148394	501083-0100	50	2.00	3.25	2.25	12.25	2.50	8.00	5.00	18.50	13.00	2.50	11.00	72.00	Consult
Shims															
146534	30013-0112	(For use with 50,000 ton/70,000 ton systems)													Consult

